Project Milestone 4

Online PhoneBook

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**1.0 Implemented Functionality**

Login, Contact List, Add Contact, Update Contact, Search Contact

* 1. **Controller Code**

package com.neu.phonebook.controller;

import javax.servlet.http.HttpServletRequest;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Controller;

import org.springframework.ui.ModelMap;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.ModelAttribute;

import org.springframework.web.bind.annotation.PostMapping;

import org.springframework.web.servlet.ModelAndView;

import com.neu.phonebook.dao.ContactDao;

import com.neu.phonebook.dao.UserDAO;

import com.neu.phonebook.model.Contact;

import com.neu.phonebook.model.User;

@Controller

public class AddContactController {

@Autowired

ContactDao contactDao;

@Autowired

UserDAO userDAO;

@GetMapping(value = "/addContact.htm")

public ModelAndView addContact(ModelMap model, Contact contact, HttpServletRequest request) {

model.addAttribute("contact", contact);// Command Class

return new ModelAndView("addContact");

}

@PostMapping(value = "/addContact.htm")

public ModelAndView addContact(@ModelAttribute("contact") Contact contact, HttpServletRequest request) {

String username = (String) request.getSession().getAttribute("username");

User user = userDAO.get(username);

contact.setUser(user);

Contact committed = contactDao.create(contact);

if (committed != null)

return new ModelAndView("addContactSuccess");

else {

return new ModelAndView("addContactError");

}

}

}}

package com.neu.phonebook.controller;

import java.util.List;

import javax.servlet.http.HttpServletRequest;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Controller;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.servlet.ModelAndView;

import com.neu.phonebook.dao.ContactDao;

import com.neu.phonebook.dao.UserDAO;

import com.neu.phonebook.model.Contact;

import com.neu.phonebook.model.User;

*@Controller*

public class ContactListController {

*@Autowired*

UserDAO userDAO;

*@Autowired*

ContactDao contactDao;

*@GetMapping*(value = "/contactList.htm")

public ModelAndView contactList(HttpServletRequest request) {

String username = (String) request.getSession().getAttribute("username");

User user = userDAO.get(username);

List<Contact> contacts = contactDao.getContactList(user);

request.setAttribute("contactList", contacts);

return new ModelAndView("contactList");

}

}

package com.neu.phonebook.controller;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpSession;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Controller;

import org.springframework.ui.ModelMap;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.ModelAttribute;

import org.springframework.web.bind.annotation.PostMapping;

import com.neu.phonebook.dao.UserDAO;

import com.neu.phonebook.model.User;

@Controller

public class HomeController {

@Autowired

UserDAO userDAO;

@GetMapping(value = "/")

public String showForm(ModelMap model, User user, HttpServletRequest request) {

request.getSession().invalidate();

user.setName("Username");

user.setPassword("password");

model.addAttribute("user", user);// Command Class

return "home";

}

@GetMapping(value = "/dashboard")

public String showDashboard(HttpServletRequest request) {

if (request.getSession(false) != null)

return "login";

else {

return "home";

}

}

@PostMapping(value = "/")

public String showSuccess(@ModelAttribute("user") User user, HttpServletRequest request) {

User committed = userDAO.get(user.getName());

if (committed != null && committed.getPassword().equals(user.getPassword())) {

HttpSession hs = request.getSession();

hs.setAttribute("username", user.getName());

return "login";

}

else {

return "invalid";

}

}

}

package com.neu.phonebook.controller;

import java.util.ArrayList;

import java.util.List;

import javax.servlet.http.HttpServletRequest;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Controller;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.PostMapping;

import org.springframework.web.servlet.ModelAndView;

import com.neu.phonebook.dao.ContactDao;

import com.neu.phonebook.dao.UserDAO;

import com.neu.phonebook.model.Contact;

import com.neu.phonebook.model.User;

@Controller

public class SearchContactController {

@Autowired

ContactDao contactDao;

@Autowired

UserDAO userDAO;

@GetMapping(value = "/searchContact.htm")

public ModelAndView searchContact(HttpServletRequest request) {

return new ModelAndView("searchContact");

}

@PostMapping(value = "/searchContact.htm")

public ModelAndView searchContactResult(HttpServletRequest request) {

String contactname = (String) request.getParameter("keyword");

String parameter = request.getParameter("parameter");

User user = userDAO.get((String)request.getSession().getAttribute("username"));

List<Contact> contactList = (ArrayList<Contact>)contactDao.getLike(contactname, user,parameter);

if(contactList.isEmpty()) {

request.setAttribute("contactname", contactname);

return new ModelAndView("searchResultsEmpty");

}

else {

request.setAttribute("contactList", contactList);

return new ModelAndView("searchResults");

}

}

}

package com.neu.phonebook.controller;

import java.util.List;

import javax.servlet.http.HttpServletRequest;

import org.springframework.beans.factory.annotation.Autowired;

import org.springframework.stereotype.Controller;

import org.springframework.ui.ModelMap;

import org.springframework.web.bind.annotation.GetMapping;

import org.springframework.web.bind.annotation.PostMapping;

import org.springframework.web.servlet.ModelAndView;

import com.neu.phonebook.dao.ContactDao;

import com.neu.phonebook.dao.UserDAO;

import com.neu.phonebook.model.Contact;

import com.neu.phonebook.model.User;

@Controller

public class UpdateContactController {

@Autowired

ContactDao contactDao;

@Autowired

UserDAO userDAO;

@GetMapping(value = "/update.htm")

public ModelAndView updateContact(HttpServletRequest request) {

String username = (String) request.getSession().getAttribute("username");

User user = userDAO.get(username);

List<Contact> contacts = contactDao.getContactList(user);

request.setAttribute("contactList", contacts);

return new ModelAndView("update");

}

@PostMapping(value = "/update.htm")

public ModelAndView updateContactSpecific(ModelMap model, Contact contact, HttpServletRequest request) {

String source = request.getParameter("source");

if (source.equals("firstForm")) {

String contactName = request.getParameter("contact");

Contact con = contactDao.get(contactName);

model.addAttribute("contact", con);

return new ModelAndView("updateContact");

} else if (source.equals("finalForm")) {

Contact refresh = contactDao.get(contact.getName());

refresh.setName(contact.getName());

refresh.setPhone(contact.getPhone());

refresh.setAddress(contact.getAddress());

contactDao.update(refresh);

request.setAttribute("contact", refresh);

return new ModelAndView("updateSuccess");

}

return new ModelAndView("home");

}

}